

Title (en)

LABELLED MODIFIED GUANINE-CONTAINING NUCLEOSIDES AND NUCLEOTIDES COMPRISING A FLUOROPHORE ATTACHED TO THE BASE THROUGH A LINKING GROUP COMPRISING A POLYETHYLENE GLYCOL SPACING GROUP AND METHODS FOR THEIR USE

Title (de)

MARKIERTE MODIFIZIERTE GUANIN-ENTHALTENDEN NUKLEOSIDEN UND NUKLEOTIDEN MIT KOVALENT GEBUNDENEN FLUOROPHOREN AN DER BASE WOBEI DIE VERBINDENDE LINKER-KOMPONENTE POLYETHYLENGLYKOL-EINHEITEN ENTHÄLT UND METHODEN ZU DEREN ANWENDUNG

Title (fr)

NUCLEOSIDES ET NUCLEOTIDES MARQUÉS CONTENANT DES GUANINES MODIFIÉES ET UN FLUOROPHORE FIXÉ À LA BASE PAR L'INTERMÉDIAIRE D'UN GROUPE DE LIAISON POLYALKYLÈNEGLYCOL

Publication

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Application

EP 06779167 A 20060818

Priority

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Abstract (en)

[origin: WO2007020457A2] Modified guanine-containing nucleosides and nucleotides, in particular fluorescently labelled guanine-containing nucleosides and nucleotides, which exhibit reduced quenching effects, and hence enhanced brightness of the fluorophore are described.

IPC 8 full level

C07H 19/16 (2006.01); **C07H 19/20** (2006.01); **C07H 21/00** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP US)

C12Q 1/686 (2013.01 - EP US)

Citation (opposition)

Opponent :

- WO 2004048397 A2 20040610 - ROCHE DIAGNOSTICS GMBH [DE], et al
- WO 2004031405 A1 20040415 - ECOLE POLYTECH [CH], et al
- WO 03087302 A2 20031023 - STRATAGENE INC [US], et al
- WO 2005044836 A2 20050519 - GENOVOXX GMBH [DE], et al
- RANDOLPH J.B. ET AL: "Stability, specificity and fluorescence brightness of multiply-labeled fluorescent DNA probes", NUCLEIC ACIDS RESEARCH, vol. 25, no. 14, 1997, pages 2923 - 2929, XP002074426, DOI: doi:10.1093/nar/25.14.2923
- SEIDEL C.A.M. ET AL: "Nucleobase-specific quenching of fluorescent dyes. 1. Nucleobase one-electron redox potentials and their correlation with static and dynamic quenching efficiencies", J. PHYS. CHEM., vol. 100, 1996, pages 5541 - 5553
- BEHLKE M.A. ET AL: "Fluorescence quenching by proximal G-bases", IDT TECHNICAL BULLETIN, 2005, pages 1 - 3

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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